

MC ENTIRE JNGB, SC		Station ID = MSWT_KMMT	
Latitude = 33.92 N		Elevation = 252 Feet	
Longitude = 80.80 W		Average Pressure = 29.79 inches Hg	
Period of Record = 1988 To 2017			

Design Criteria Data

Dry Bulb Temperature (T)	Mean Coincident (Average) Values				
	Design Value (°F)	Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	100	76	97	8	VRB
0.4% Occurrence	97	76	103	8	W
1.0% Occurrence	94	76	106	7.2	VRB
2.0% Occurrence	91	75	105	6.6	VRB
Mean Daily Range	21	-	-	-	N
97.5% Occurrence	31	29	18	3.8	N
99.0% Occurrence	27	25	15	3.7	NW
99.6% Occurrence	23	21	12	3.5	N
Median of Extreme Lows	16	15	9	2.9	N

Wet Bulb Temperature (T _{wb})	Design Value (°F)	Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	81	91	140	5.2	VRB
0.4% Occurrence	79	89	131	5.6	VRB
1.0% Occurrence	78	88	127	5.7	VRB
2.0% Occurrence	78	88	127	5.7	VRB

Humidity Ratio (HR)	Design Value (gr/lb)	Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Median of Extreme Highs	151	84	0.99	3.3	VRB
0.4% Occurrence	141	83	0.94	3.9	VRB
1.0% Occurrence	134	83	0.89	5.2	VRB
2.0% Occurrence	132	82	0.87	4.4	VRB

Air Conditioning/ Humid Area Criteria	Threshold	T ≥ 93 °F	T ≥ 80 °F	Twb ≥ 73 °F	Twb ≥ 67 °F
	# of Hours	133	1329	1210	2650

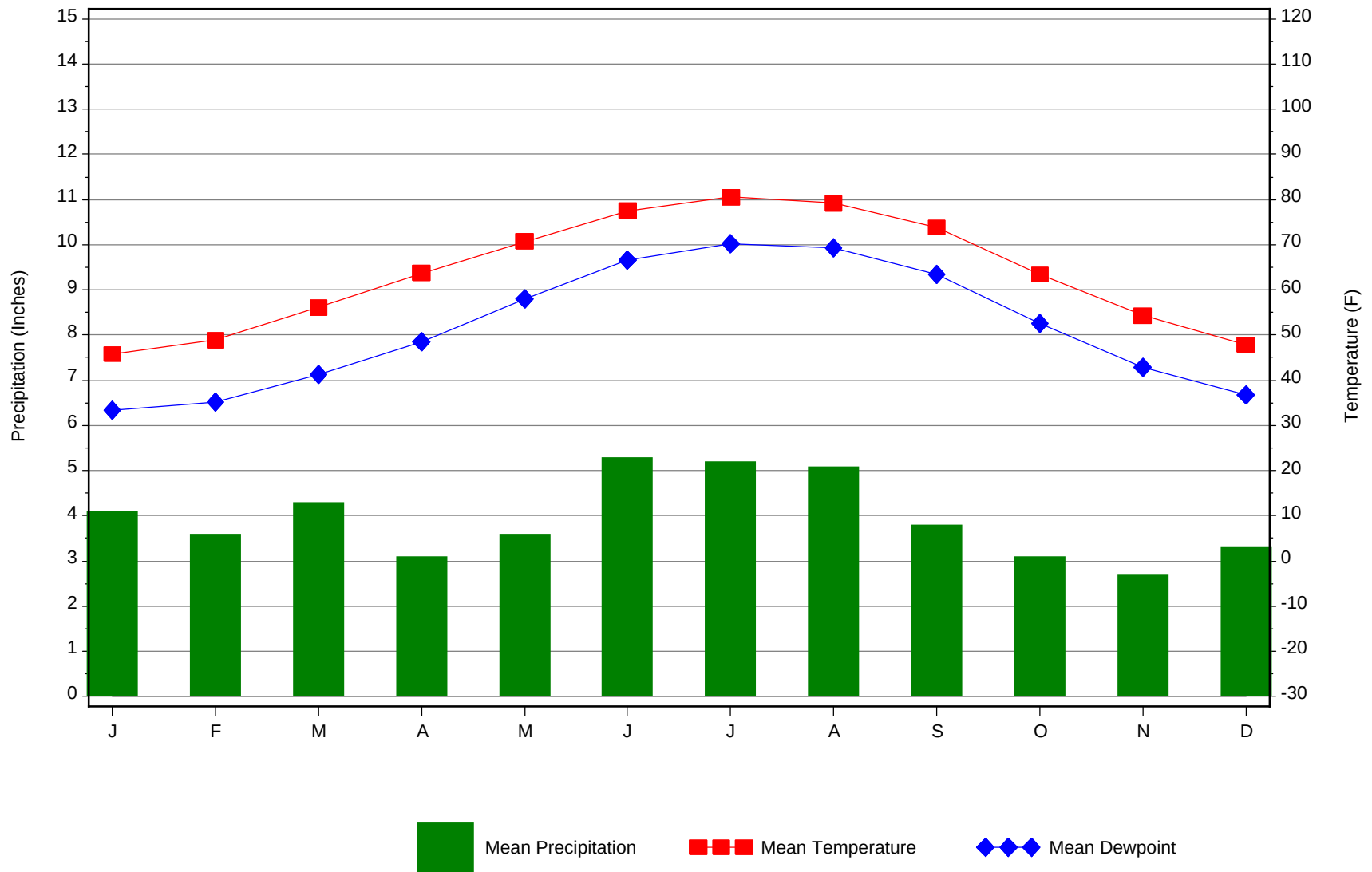
Other Site Data

Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4	90	5.0 + 1.5
Ground Water Temperature (°F) 50 Foot Depth*	Frost Depth 50 Year Recurrence (in)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.4	N/A	10	31

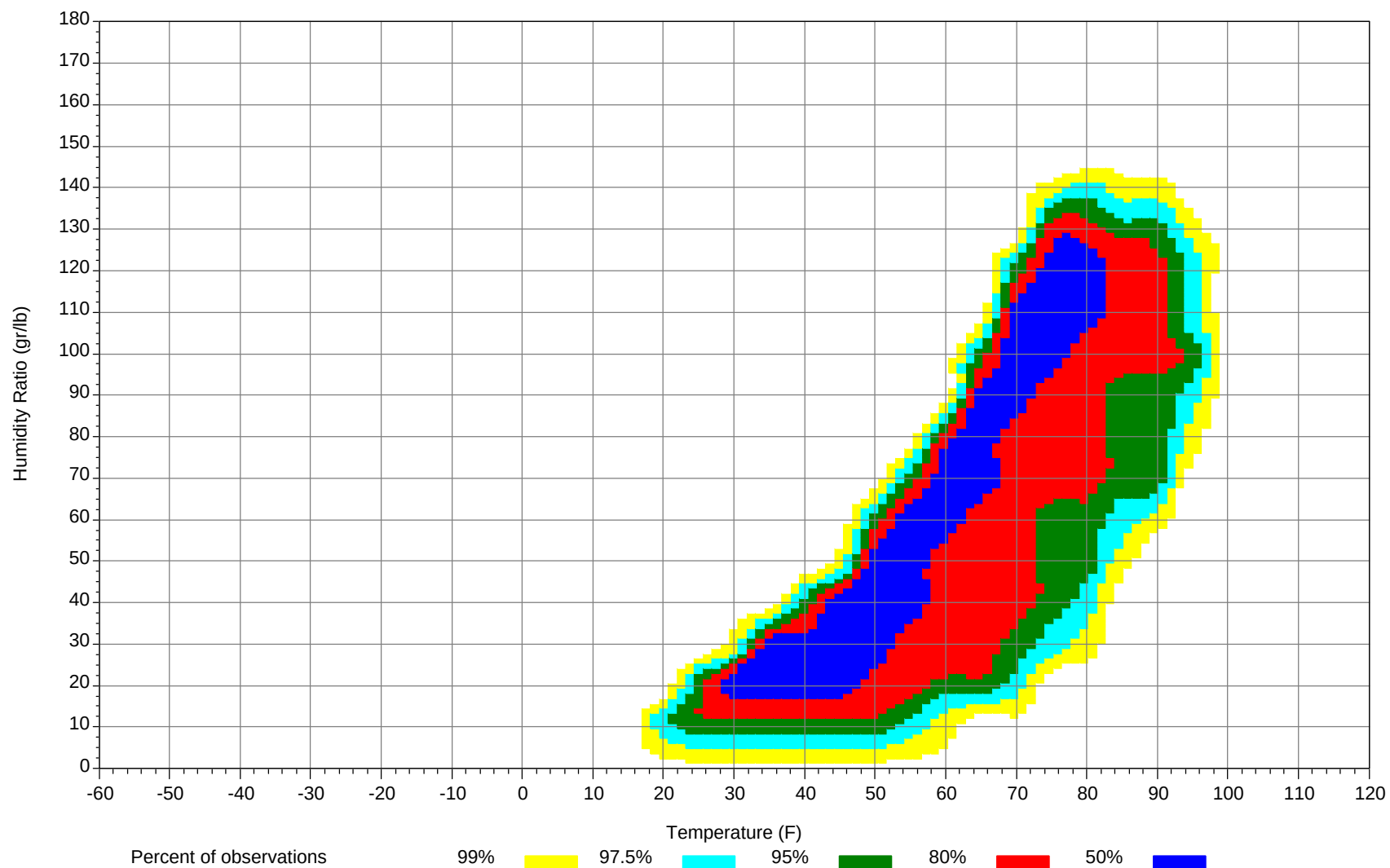
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.



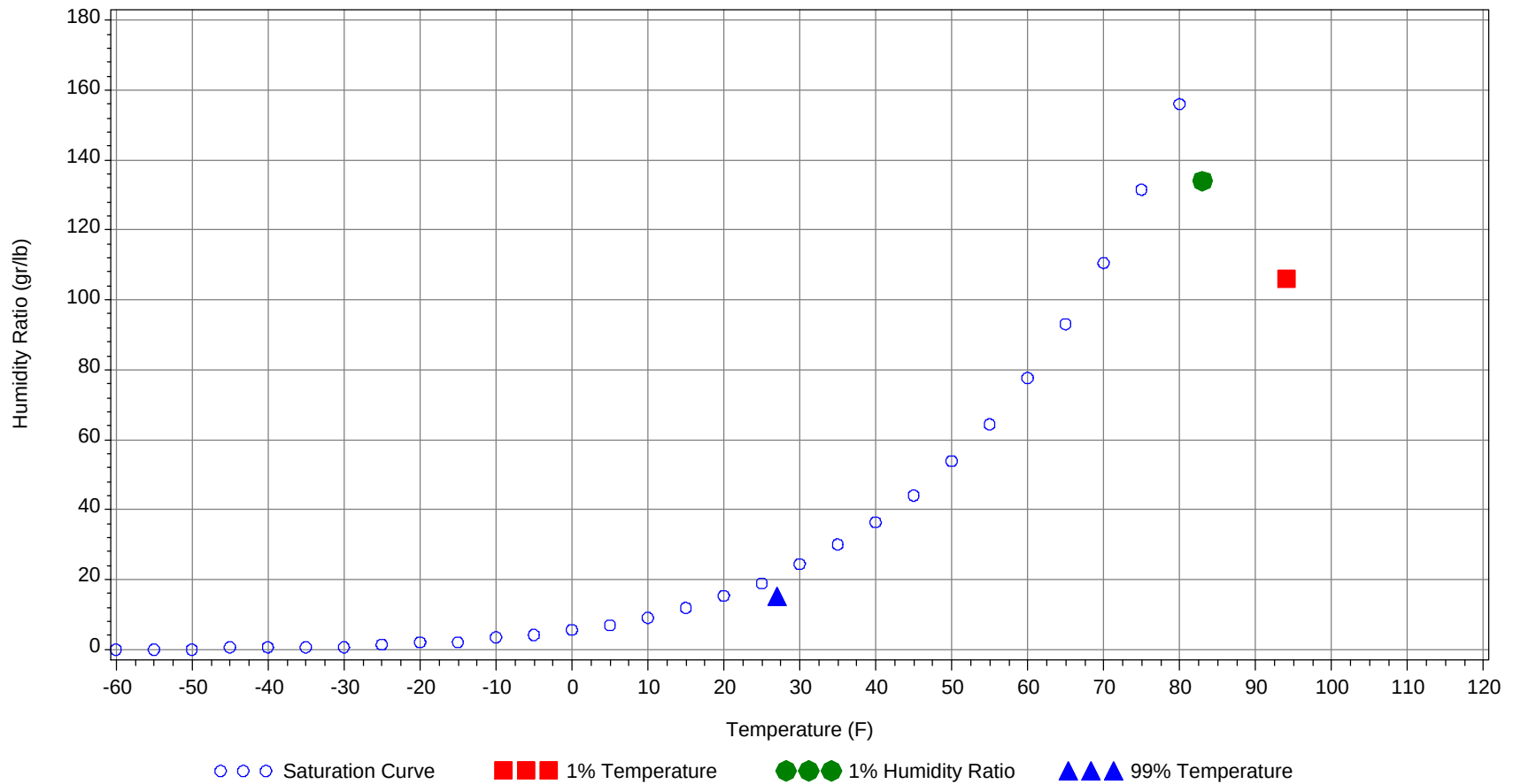
Average Annual Climate



Long Term Psychrometric Summary



Psychrometric Summary of Peak Design Values



	(° F) / (gr/lb)	MCDB (° F)	MCWB (° F)	MCDP (° F)	MCHR (gr/lb)	Enthalpy (btu/lb)
1.0% Dry Bulb	94.0		76		106.0	39.7
99.0% Dry Bulb	27.0				15.0	8.7
1.0% Humidity Ratio	134.0	83.0	77.4	75.3		40.9

Dry-Bulb Temperature Hours For An Average Year

	January					February					March				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94															
85/ 89												2	0	2	65.7
80/ 84		0		0	65.2		2	0	2	65.5		13	4	17	63.6
75/ 79		4	1	5	64.2		7	2	9	62.4	0	24	10	34	60.9
70/ 74	0	13	4	17	61.1	0	18	6	24	58.7	1	34	20	55	58.8
65/ 69	2	15	8	25	58.1	2	20	11	33	55.9	8	29	29	66	57.3
60/ 64	9	27	20	56	55.4	12	29	26	67	54.4	27	42	42	111	54.9
55/ 59	18	35	28	81	51	20	33	30	83	49.9	39	36	39	114	50.7
50/ 54	25	41	37	103	46.2	23	34	34	91	45.4	44	30	40	114	46.6
45/ 49	32	40	43	115	41.7	31	32	37	100	41.4	41	21	29	91	42.3
40/ 44	32	27	35	94	37.7	34	22	31	87	37.8	34	10	19	63	38.6
35/ 39	38	26	33	97	33.1	42	19	29	90	34	28	6	12	46	34
30/ 34	39	15	22	76	28.9	33	7	13	53	29.4	18	1	4	23	29.4
25/ 29	30	5	13	48	24.3	20	2	4	26	24.8	6	0	1	7	24.9
20/ 24	13	1	4	18	20.1	4	0	1	5	20.3	1		0	1	20.5
15/ 19	9	0	1	10	16.3	1	0	0	1	15.7					
10/ 14	1	0	0	1	11.6	0			0	10.8					

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Dry-Bulb Temperature Hours For An Average Year

	April					May					June				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109												0	0	0	75
100/104							0		0	75		1	0	1	75
95/ 99							1	0	1	72.3		11	3	14	75.2
90/ 94		2	0	2	67.6		13	4	17	70.9		43	13	56	74.4
85/ 89		11	3	14	66.9		32	11	43	70	0	59	23	82	73.3
80/ 84		33	12	45	65.2	0	61	26	87	68.1	5	67	43	115	71.9
75/ 79	0	46	24	70	62.6	6	59	41	106	65.9	38	39	63	140	70.9
70/ 74	6	47	37	90	60.7	33	42	58	133	64.7	98	14	66	178	69.1
65/ 69	24	35	41	100	59	65	21	50	136	62.8	69	3	22	94	65.5
60/ 64	49	33	48	130	56.4	69	12	34	115	58.9	23	2	6	31	60.4
55/ 59	51	20	35	106	51.9	42	3	17	62	54	5	0	1	6	55.3
50/ 54	48	9	22	79	47.7	25	1	6	32	49.8	1		0	1	52
45/ 49	32	4	13	49	43.5	7	0	1	8	46.1					
40/ 44	19	1	4	24	39.4	1	0		1	43.3					
35/ 39	8	0	1	9	34.9										
30/ 34	2		0	2	31										
25/ 29	0			0	28										
20/ 24															
15/ 19															
10/ 14															

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Dry-Bulb Temperature Hours For An Average Year

	July					August					September				
Temperature Range (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (° F)
105/109							0		0	79					
100/104		4	0	4	76.3		2	0	2	75.6		0		0	76.5
95/ 99		26	7	33	76.6		15	3	18	76.1		2	0	2	73.3
90/ 94		68	20	88	76.4		57	15	72	75.8		23	4	27	73.2
85/ 89	0	66	31	97	75.4	0	66	28	94	74.7		47	12	59	72.6
80/ 84	14	55	57	126	74.3	7	66	52	125	73.9	0	63	27	90	70.9
75/ 79	81	25	78	184	73.2	66	32	81	179	73	14	55	57	126	69.6
70/ 74	120	4	50	174	70.7	131	9	57	197	70.3	80	32	76	188	68.1
65/ 69	27	0	4	31	66.5	35	1	10	46	65.7	73	11	37	121	64.2
60/ 64	4	0	1	5	61.6	8	0	1	9	60.7	43	6	19	68	59.5
55/ 59	1			1	58.6	1			1	56.3	22	1	6	29	54.8
50/ 54											7	0	2	9	50.1
45/ 49											2		0	2	46.4
40/ 44											0			0	43.3
35/ 39															
30/ 34															
25/ 29															
20/ 24															
15/ 19															
10/ 14															

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Dry-Bulb Temperature Hours For An Average Year

	October					November					December				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109															
100/104															
95/ 99															
90/ 94		1		1	73.4										
85/ 89		10	1	11	71.1		0		0	71					
80/ 84	0	33	5	38	67.6		5	0	5	66.9		1		1	66.1
75/ 79	2	51	18	71	65.7		21	2	23	64.2		8	1	9	64.8
70/ 74	12	53	36	101	63.9	1	34	12	47	61.6	1	16	6	23	63.3
65/ 69	26	38	43	107	61.3	12	33	23	68	60.1	5	19	12	36	60.1
60/ 64	48	35	52	135	57.8	22	44	34	100	55.6	11	31	18	60	55.8
55/ 59	48	19	41	108	53.6	25	41	39	105	51.2	17	39	27	83	50.7
50/ 54	47	7	29	83	49	36	32	43	111	47.2	24	42	40	106	46.4
45/ 49	33	1	16	50	44.6	39	19	35	93	42.9	35	39	44	118	42.3
40/ 44	20	0	6	26	40.2	37	7	24	68	39	39	25	37	101	38.4
35/ 39	9		1	10	35.9	34	3	19	56	34.8	40	19	33	92	34
30/ 34	2		0	2	31.3	24	0	7	31	30.6	39	7	20	66	29.7
25/ 29	0			0	28	9		1	10	26.2	26	2	8	36	25.4
20/ 24						1		0	1	21.6	7	0	1	8	20.8
15/ 19						0			0	16.8	3		0	3	16.7
10/ 14											0			0	13

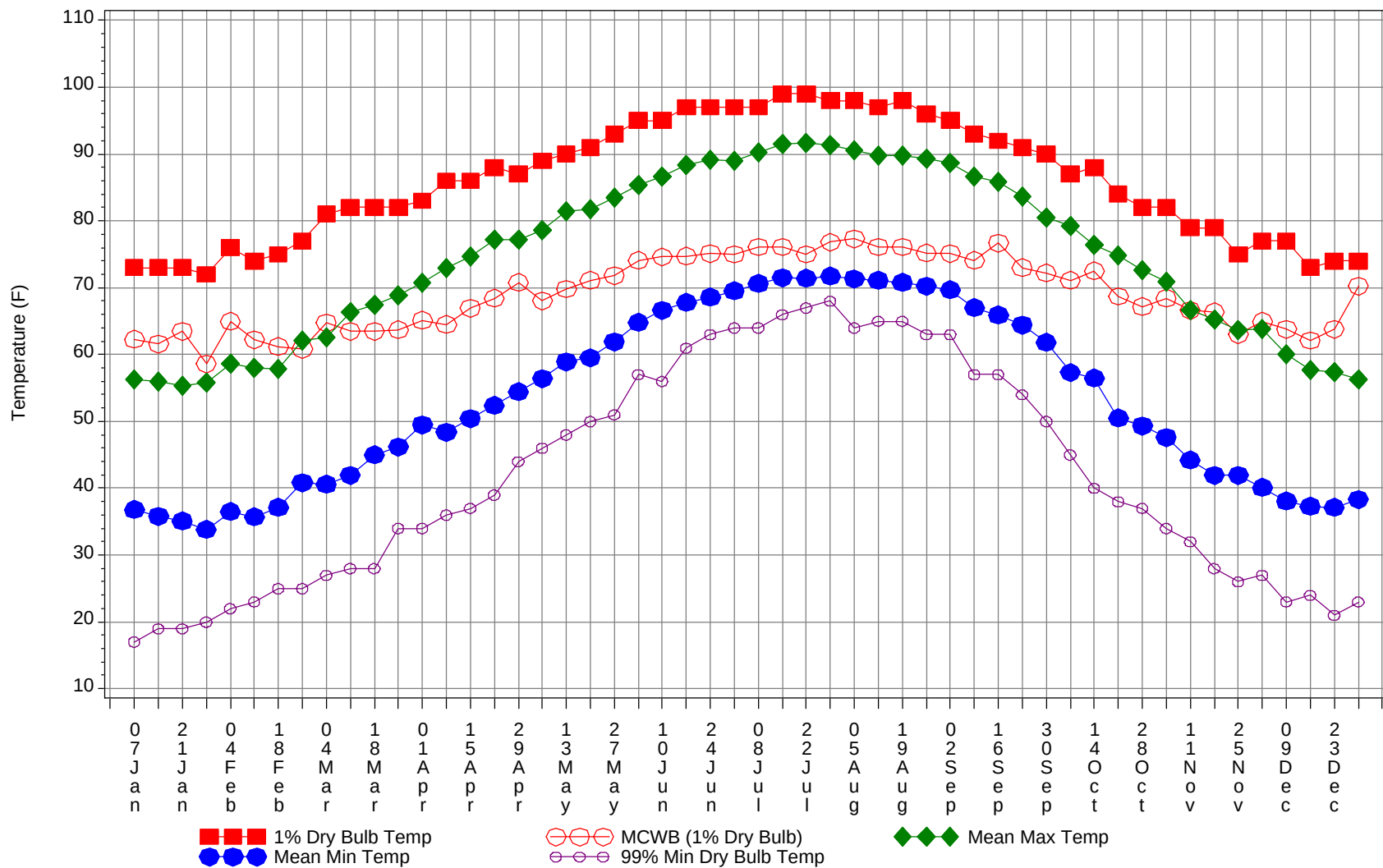
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Dry-Bulb Temperature Hours For An Average Year

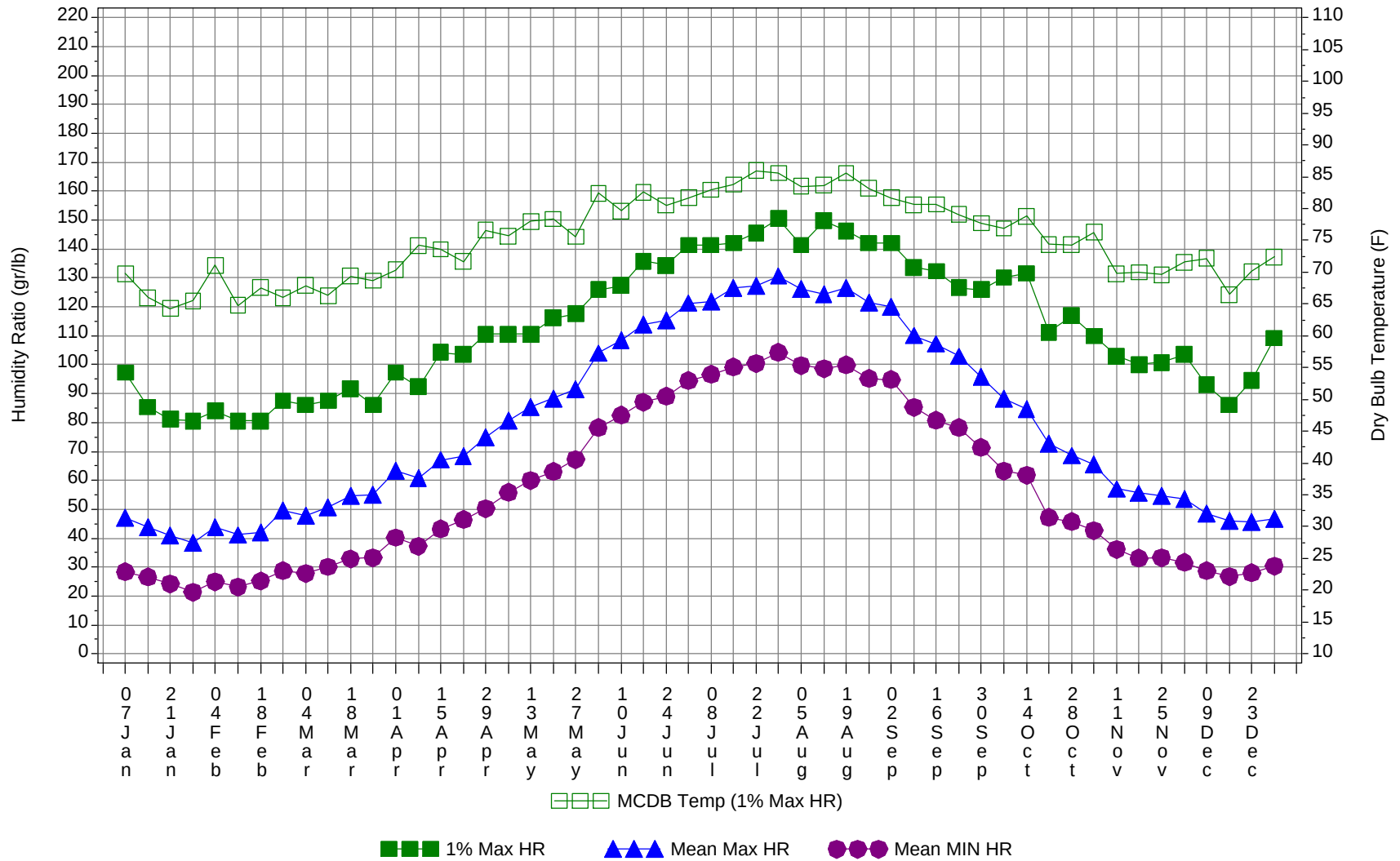
	Annual				
Temperature Range (°F)	01 To 08 LST	09 To 16 LST	17 to 00 LST	Total Obs	M C W B (°F)
105/109		0	0	0	76.3
100/104		7	1	8	75.8
95/ 99		56	13	69	76
90/ 94		212	57	269	75
85/ 89	1	301	110	412	73.3
80/ 84	28	408	230	666	71.1
75/ 79	216	375	382	973	69.2
70/ 74	501	317	434	1252	66.6
65/ 69	358	223	292	873	61.7
60/ 64	330	256	302	888	56.8
55/ 59	289	223	262	774	51.7
50/ 54	277	191	250	718	47
45/ 49	248	151	214	613	42.5
40/ 44	207	88	152	447	38.4
35/ 39	191	70	123	384	34
30/ 34	148	29	63	240	29.5
25/ 29	86	8	26	120	24.9
20/ 24	26	2	6	34	20.4
15/ 19	12	0	1	13	16.3
10/ 14	1	0	0	1	11.6

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

Annual Summary of Temperatures



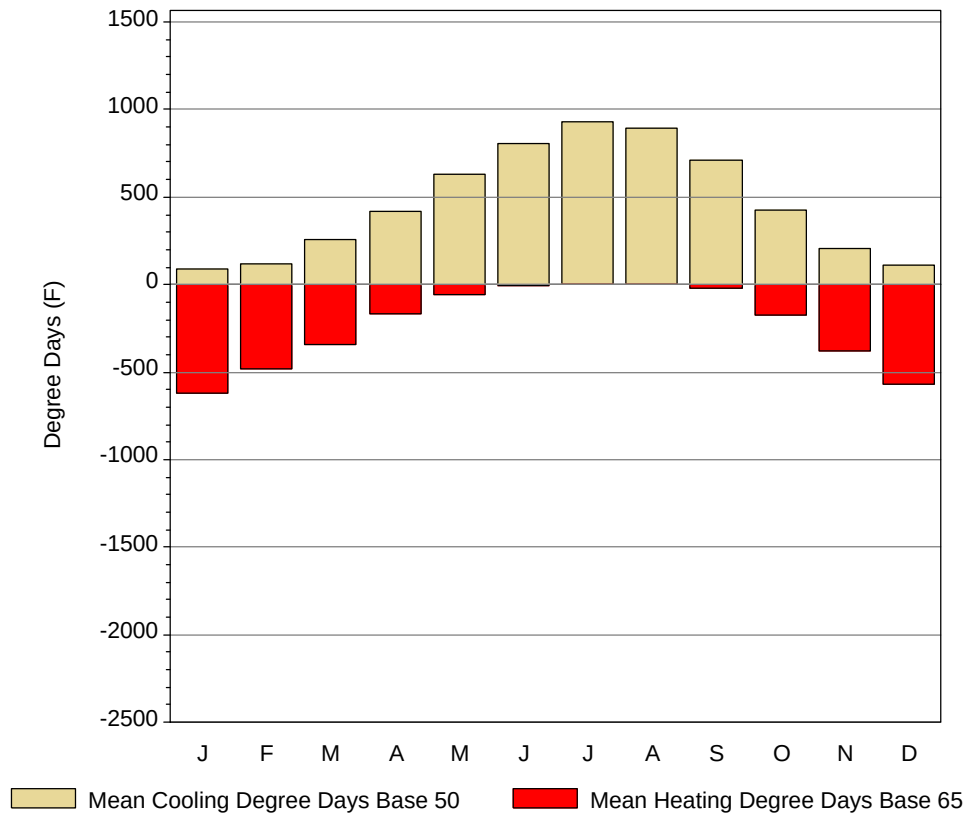
Long Term Humidity and Dry Bulb Temperature Summary



Long Term Humidity and Dry Bulb Temperature Summary

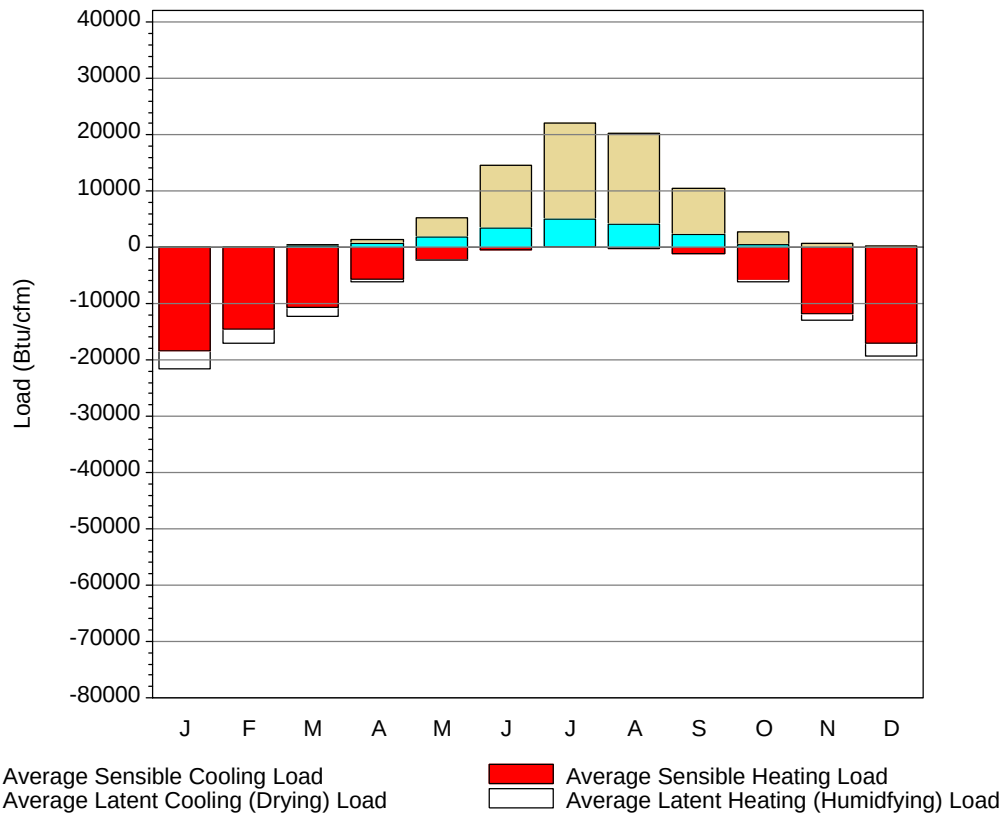
Week Ending	1.0% Temp (° F)	MCWB@ 1% Temp (° F)	Mean Max Temp (° F)	Mean Min Temp (° F)	99% Temp (° F)	1.0% HR (gr/lb)	MCDB@ 1% HR (° F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	73	62.3	56.2	36.8	17	97.3	69.8	47.2	28.4
14-Jan	73	61.6	56	35.8	19	85.4	66	43.7	26.5
21-Jan	73	63.5	55.3	35.1	19	81.2	64.3	41	24.2
28-Jan	72	58.6	55.8	33.8	20	80.5	65.5	38.4	21.4
4-Feb	76	65	58.6	36.5	22	84	71.1	43.7	24.9
11-Feb	74	62.2	58	35.7	23	80.5	64.8	41.1	23.1
18-Feb	75	61.2	57.9	37.1	25	80.5	67.6	42	25.2
25-Feb	77	60.8	62.1	40.8	25	87.5	66	49.5	28.7
4-Mar	81	64.7	62.5	40.6	27	86.1	67.9	47.8	27.9
11-Mar	82	63.5	66.4	41.9	28	87.5	66.3	50.6	30.1
18-Mar	82	63.5	67.5	45	28	91.7	69.4	54.6	32.8
25-Mar	82	63.7	68.8	46.2	34	86.1	68.7	54.9	33.2
1-Apr	83	65.1	70.7	49.5	34	97.3	70.4	63.2	40.2
8-Apr	86	64.5	73	48.4	36	92.4	74.2	60.9	37.2
15-Apr	86	66.9	74.7	50.4	37	104.3	73.6	67.1	43.2
22-Apr	88	68.4	77.2	52.4	39	103.6	71.7	68.5	46.4
29-Apr	87	70.8	77.2	54.4	44	110.6	76.6	75	50.3
6-May	89	68	78.6	56.4	46	110.6	75.7	80.7	55.9
13-May	90	69.8	81.4	58.9	48	110.6	78	85.4	60
20-May	91	71.1	81.7	59.5	50	116.2	78.4	88.4	63
27-May	93	71.8	83.5	61.9	51	117.6	75.6	91.4	67.2
4-Jun	95	74.1	85.4	64.8	57	126	82.4	104	78.3
10-Jun	95	74.6	86.7	66.6	56	127.4	79.6	108.5	82.5
17-Jun	97	74.7	88.4	67.8	61	135.8	82.6	113.9	87
24-Jun	97	75.1	89.1	68.6	63	134.4	80.5	115.3	89.1
1-Jul	97	75	89	69.5	64	141.4	81.7	121.3	94.5
8-Jul	97	76.1	90.3	70.6	64	141.4	83	122	96.7
15-Jul	99	76.1	91.5	71.5	66	142.1	83.8	126.6	99.2
22-Jul	99	75	91.7	71.4	67	145.6	86	127.2	100.4
29-Jul	98	76.8	91.4	71.7	68	150.5	85.6	130.7	104.2
5-Aug	98	77.3	90.6	71.3	64	141.4	83.5	126.1	99.8
12-Aug	97	76.1	89.8	71.1	65	149.8	83.7	124.5	98.7
19-Aug	98	76.1	89.8	70.8	65	146.3	85.6	126.6	99.9
26-Aug	96	75.2	89.3	70.2	63	142.1	83.2	121.5	95.2
2-Sep	95	75.1	88.7	69.7	63	142.1	81.7	120.1	94.8
9-Sep	93	74.1	86.6	67	57	133.7	80.6	110.1	85.2
16-Sep	92	76.7	85.9	65.9	57	132.3	80.7	107.2	80.7
23-Sep	91	73	83.6	64.4	54	126.7	79.1	102.9	78.2
30-Sep	90	72.2	80.5	61.8	50	126	77.7	95.8	71.4
7-Oct	87	71.1	79.2	57.3	45	130.2	76.9	88.3	63.3
14-Oct	88	72.5	76.4	56.5	40	131.6	78.8	84.7	61.8
21-Oct	84	68.7	74.9	50.5	38	111.3	74.4	72.6	47.2
28-Oct	82	67.2	72.6	49.3	37	116.9	74.3	68.6	45.7
4-Nov	82	68.4	70.9	47.6	34	109.9	76.3	65.6	42.6
11-Nov	79	66.6	66.6	44.2	32	102.9	69.8	57	36.1
18-Nov	79	66.4	65.3	41.9	28	100.1	70	55.6	33.1
25-Nov	75	63	63.7	41.9	26	100.8	69.6	54.8	33.2
2-Dec	77	65	63.8	40.1	27	103.6	71.6	53.6	31.6
9-Dec	77	63.8	60	38.1	23	93.1	72.2	48.4	28.8
16-Dec	73	62.1	57.7	37.3	24	86.1	66.5	46	26.8
23-Dec	74	63.8	57.4	37.1	21	94.5	70.1	45.7	28
31-Dec	74	70.2	56.3	38.3	23	109.2	72.4	46.7	30.3

Degree Days, Heating and Cooling (Base 65 F) & Cooling (Base 50F)



Month	Mean Cooling Degree Days (°F) Base 50	Mean Cooling Degree Days (°F) Base 65	Mean Heating Degree Days (°F) Base 65
JAN	90.6	7.6	619.2
FEB	119.8	14	482.5
MAR	254.4	49.1	340.6
APR	417.4	113.2	166.6
MAY	633.5	223.7	56.3
JUN	807.8	363.9	6.1
JUL	930.9	466.3	0.5
AUG	893.4	429.5	1.1
SEP	708.9	280.1	21.5
OCT	424.3	108.7	170.3
NOV	203	30.1	377.6
DEC	111.6	11.7	566.8
ANN	5595.6	2097.9	2809.1

Average Ventilation and Infiltration Loads (Outside Air vs 75F, 60% RH summer; 68F, 30% RH winter)



Month	Average Sensible Cooling Load (Btu/cfm)	Average Sensible Heating Load (Btu/cfm)	Average Latent Cooling Load (Btu/cfm)	Average Latent Heating Load (Btu/cfm)
JAN	8	-18348	87	-3327
FEB	27	-14536	50	-2454
MAR	200	-10772	205	-1502
APR	680	-5739	813	-478
MAY	1749	-2324	3574	-16
JUN	3520	-382	10983	0
JUL	4909	-48	17105	0
AUG	4200	-98	15941	0
SEP	2235	-1007	8262	0
OCT	558	-5889	2290	-173
NOV	69	-11778	534	-1137
DEC	13	-16950	268	-2454
ANN	18168	-87871	60112	-11541

Station Information		Shading Geometry in Dimensionless Units	
City, State, WBAN	COLUMBIA, SC 13883	Window:	1.000
Lat, Lon, Elev	33.95N 81.12W 226ft	Overhang:	0.364
Press, Stn_Type	14.6psia Secondary	Vert Gap:	0.275

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day) Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Global	820	1080	1410	1790	1930	1990	1920	1740	1510	1270	930	760	1430
	Std.Dev.	59	95	119	108	108	124	137	125	117	114	73	56	33
	Minimum	680	930	1180	1560	1720	1720	1570	1510	1260	1030	700	620	1360
	Maximum	970	1280	1620	2040	2140	2220	2170	2000	1730	1490	1060	870	1480
	Diffuse	350	440	570	670	820	880	890	810	670	490	370	320	610
Clear Day	Global	1150	1480	1910	2300	2520	2590	2520	2300	1960	1540	1180	1030	1880
NORTH	Global	230	290	370	450	550	620	580	490	410	330	250	210	400
	Diffuse	230	290	370	440	500	530	520	470	410	330	250	210	380
Clear Day	Global	220	270	340	430	580	690	630	490	390	310	230	200	400
EAST	Global	520	670	830	1020	1050	1050	1030	960	850	760	580	490	820
	Diffuse	280	350	450	540	610	630	630	580	500	400	310	260	460
Clear Day	Global	800	990	1180	1330	1380	1380	1340	1270	1150	970	800	730	1110
SOUTH	Global	1140	1210	1120	970	760	670	700	830	1020	1260	1230	1160	1000
	Diffuse	370	430	500	530	550	550	560	560	550	490	410	360	490
Clear Day	Global	1990	1950	1670	1220	880	740	790	1050	1440	1760	1890	1930	1440
WEST	Global	530	680	840	1010	1030	1040	970	930	870	780	600	500	810
	Diffuse	280	350	460	550	610	640	630	590	510	410	310	260	470
Clear Day	Global	800	990	1180	1330	1380	1380	1340	1270	1150	970	800	730	1110

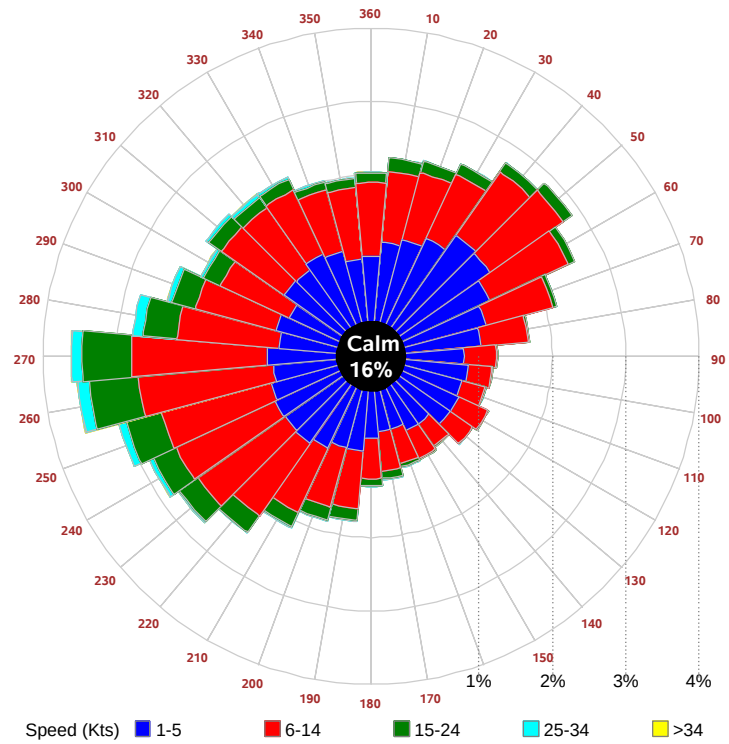
Average Annual Solar Radiation - Nearest Available Site Source: National Renewable Energy Laboratory, Golden CO, 1995

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING Percentage Uncertainty = 9														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ.	Unshaded	550	750	1010	1300	1410	1450	1400	1270	1090	900	630	500	1020
NORTH	Unshaded	160	200	260	310	360	400	380	330	280	230	170	150	270
	Shaded	150	190	240	290	340	370	350	310	260	210	160	140	250
EAST	Unshaded	360	470	590	730	740	740	730	680	600	530	410	340	580
	Shaded	340	440	540	660	670	670	660	610	550	490	380	320	530
SOUTH	Unshaded	850	870	760	600	460	410	430	510	670	890	910	870	680
	Shaded	840	820	640	440	360	360	360	390	540	810	890	860	610
WEST	Unshaded	370	480	600	720	730	730	690	660	620	550	420	340	570
	Shaded	340	440	550	660	660	660	620	590	560	500	390	320	530

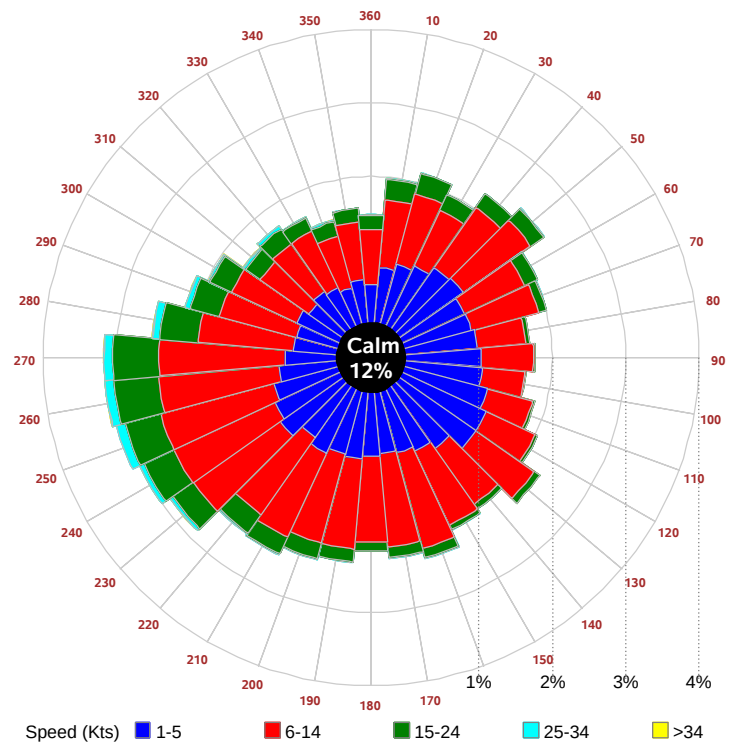
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS Percentage Uncertainty = 9												
		March					June					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	35	75	89	76	38	37	79	101	99	72	
	M.Cloudy	21	45	55	48	24	24	54	74	74	51	
NORTH	M.Clear	9	14	15	14	10	22	17	17	17	17	
	M.Cloudy	8	15	17	16	9	14	17	20	19	16	
EAST	M.Clear	75	66	17	14	10	66	76	41	17	17	
	M.Cloudy	25	34	18	16	9	30	45	33	19	16	
SOUTH	M.Clear	31	65	78	66	33	11	21	36	35	19	
	M.Cloudy	14	34	42	37	17	10	19	31	30	18	
WEST	M.Clear	9	14	15	63	75	11	17	17	45	74	
	M.Cloudy	8	15	17	36	31	10	17	20	36	46	
M.Clear	(% hrs)	38	39	38	37	38	38	43	39	36	37	

		Sept					Dec					
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm	
HORIZ.	M.Clear	21	65	88	85	56	15	47	58	43	9	
	M.Cloudy	12	39	60	60	38	9	27	34	25	6	
NORTH	M.Clear	8	15	17	17	14	5	10	12	10	4	
	M.Cloudy	6	15	19	19	14	4	10	12	10	3	
EAST	M.Clear	51	74	38	17	14	44	48	12	10	4	
	M.Cloudy	14	35	29	19	14	11	21	12	10	3	
SOUTH	M.Clear	13	47	67	65	40	35	80	92	75	24	
	M.Cloudy	7	26	42	42	25	10	31	38	29	7	
WEST	M.Clear	8	15	17	46	72	5	10	16	52	33	
	M.Cloudy	6	15	19	33	38	4	10	14	22	9	
M.Clear	(% hrs)	41	44	41	39	43	40	39	40	40	41	

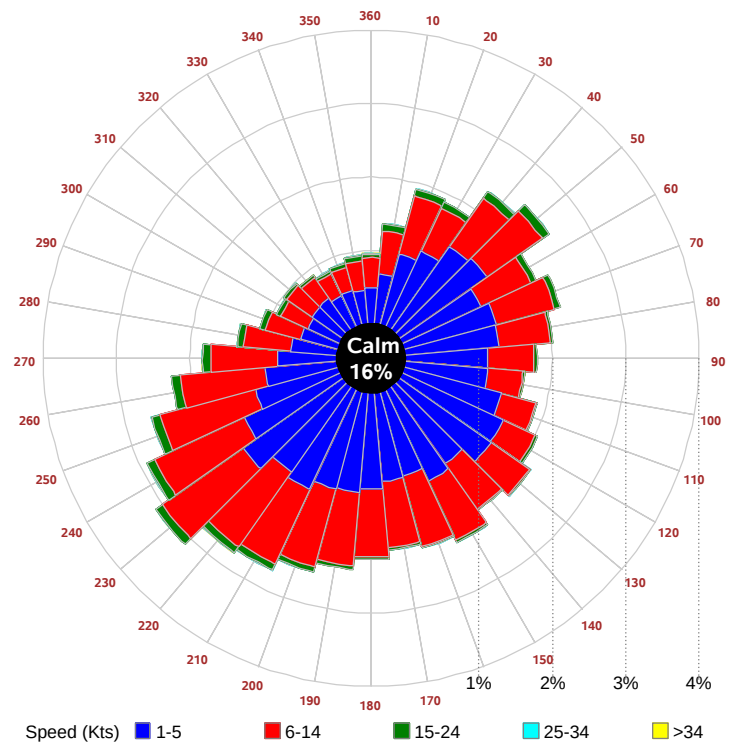
Wind Summary - December, January, and February



Wind Summary - March, April, and May



Wind Summary - June, July, and August



Wind Summary - September, October, and November

